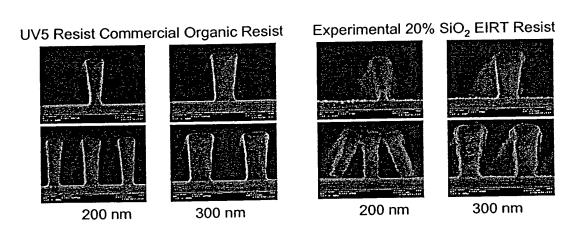


Figure 1. Comparison of contrast curves of EIRT resists and the commercial resist UV5 with electron beam exposure.

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FIG. Z



200 nm 300 nm 200 nm 300 nm 300 nm

Figure 2. Comparison of electron beam imaging of 200 and 300-nm dense and isolated lines of an EIRT resist and the commercial resist UV5.

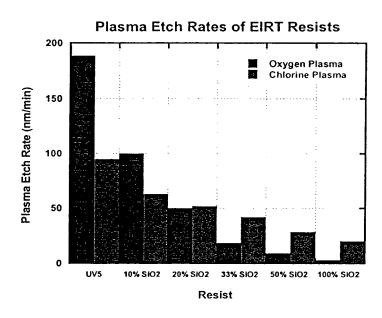


Figure 3. Comparison of RIE etch rates of resists containing increasing amounts of SiO₂ in both an oxygen and chlorine plasma.

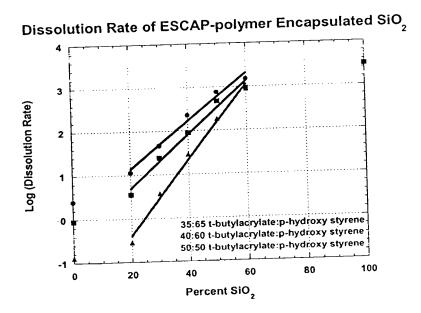


Figure 4. Dissolution rates of three different polymers with varying levels of SiO₂ incorporation.

F1G. 5

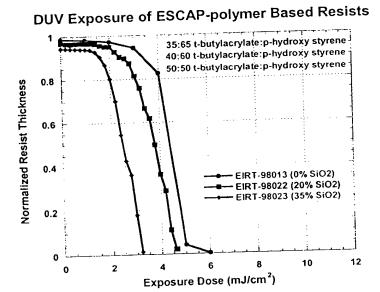


Figure 5. Comparison of contrast curves of three EIRT resists of improved formulation.

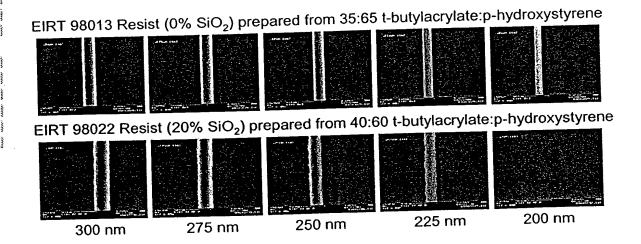


Figure 6. Comparison of 248-nm imaging (NA = 0.48) of isolated lines of a 20% SiO₂ containing EIRT resist and a resist containing no SiO₂.